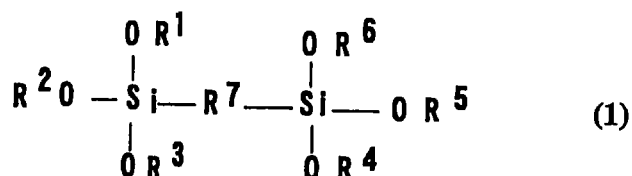


ABSTRACT

A process for producing a titanium-containing silicon oxide catalyst having a silicon-carbon-silicon bond,
5 silicon-oxygen-silicon bond and silicon-oxygen-titanium bond, which comprises causing a silicon compound of the following formula (1) and a titanium alkoxide compound to gel in a water and/or alcohol solvent and removing the solvent in the resulted gel by extraction with a supercritical fluid:



10 (wherein, R¹ to R⁷ each independently represent a hydrocarbon group having 1 to 20 carbon atoms.).



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